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59. A retrievable implantation material, comprising:

a crosslinked biocompatible macrocapsule comprising at least one ionically crosslinked component, and at least one covalently photocrosslinked component, whereby said macrocapsule encapsulates a microcapsule(s) or a biologic.

60. The retrievable implantation material of claim 59, wherein the macrocapsule provides immunoprotection to the encapsulated microcapsule(s) or biologic when xenotransplanted.

61. A biologically active material encapsulated in a crosslinked biocompatible material, wherein said crosslinked biocompatible material comprises:

at least one ionically crosslinked component; and

at least one covalently crosslinked component, wherein the ionically crosslinked component is an alginate, and wherein the biologically active materials are living cells selected from islets of Langerhans, dopamine secreting cells, erythropoietin secreting cells, nerve growth factor secreting

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cells, hepatocytes, adrenaline/angiotensin secreting cells, parathyroid cells, or norepinephrine/metacephalin secreting cells.

62. A biologic encapsulated in a crosslinked biocompatible material, wherein said crosslinked biocompatible material comprises:

at least one ionically crosslinked component; and

at least one covalently crosslinked component,

wherein the covalently crosslinked component is derived from a polyalkylene oxide, and wherein the biologic is a diagnostic marker, or a biologically active material selected from living cells selected from islets of Langerhans, dopamine secreting cells, erythropoietin secreting cells, nerve growth factor secreting cells, hepatocytes, adrenaline/angiotensin secreting cells, parathyroid cells, or norepinephrine/metacephalin secreting cells.

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